

62-12293

Agamenzone, Mirco.
PROCESS FOR THE PRODUCTION OF ACROLEIN
FROM PROPYLENE AND OXYGEN. Presented at
"Days of Chemistry" at the Fair of Milan (no. 39)
18-20 Apr 61. [1961] 3900 words, 12 refs.
Order form CTS(Chem) \$15.60 CTS(Chem)-248
subsequent copies \$2.60/ea.

Trans. of ~~Ind. Chim. (Milan)~~ ~~Ind. Chim. (Milan)~~ 1961,
v. 43, no. 8, p. 875-880.

DESCRIPTORS: *Acroleins, *Propenes, Oxygen,
*Processes, Production, Chemical Industry.

(Engineering--Chemical, TT, v. 7, no. 10)

- I. Agamenzone, M.
- II. CTS(Chem)-248
- III. Chemical Translating
Service, Palo Alto, Calif.
- IV. Title: Days...

Office of Technical Services

Norcross, G.
THE MANUFACTURE OF ALCOHOLS BY CAR-
BONYLATION. (1961)
Order from ATS \$12.20 ATS-90N561
Trans. of [la] Chimica e [l]ndustria (Italy) 1961,
v. 43, no. 8, p. 880-884.
DESCRIPTORS: *Alcohols. Production.

(Chemistry--Organic, TI, v. 7, no. 3)

62-12228

I. Title. Carbonylation
E. Norcross, G.
II. ATS-90N561
III. Associated Technical
Services, Inc.,
East Orange, N. J.

ATS/1029-17

Associated Technical Services

Crespi, Giovanni and Pili, Umberto.
SOME THERMODYNAMIC PROPERTIES OF VUL-
CANIZED CIS-1,4-POLYBUTADIENE. [1961]

3600 words. 2 refs.

Order from CTS(Chem) 510-40

CTS(Chem)-249

Subject: polybutadiene 51-25-00

Trans. of [Chimica e l'Industria (Italy) 1961,
v. 43, no. 9, pp 993-998.

DESCRIPTORS: *Butadienes, Dienes, *Polymers,
*Vulcanization, Elastomers, Thermodynamics,
Sediment, Crystal structure.

(Minerals-Rubber, TT, v. 1, no. 2)

62-12294

- I. Crespi, G.
- II. Pili, U.
- III. CTS(Chem)-249
- IV. Chemical Translating
Service, Palo Alto, Calif.

Office of Technical Services

Asta, Gino dall' and Bassi, Ivano Walter.

PREPARATION AND CRYSTALLINE STRUCTURE OF
ISOTACTIC POLYVINYL n-BUTYL ETHER. [1961]

3300 words, 17 refs.

Order from CTS (Chem) \$13.20

CTS (Chem)-252

subsequent copies \$ 2.50/ea.

Trans. of [la] Chimica e [l]'Industria (Italy) 1961,
v. 43, no. 9, p. 999-1000.

DESCRIPTORS: *Ethers, *Vinyl radicals, *Butyl radi-
cals, Polymerization, *Polymers, Crystal structure,
Aluminum, Catalysts, Friedel-Crafts reactions,
Stereochemistry, Ethylenes.

(Chemistry--Organic, TT, v. 7, no. 6)

62-12301

I. Asta, G. dall'

II. Bassi, I. W.

III. CTS (Chem)-252

IV. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

R-892-W

Comportamento di esplosive all'azione di raggi
gamma Nota II, by Piantanida, Erminio & Peazzi,
Marcello

ITALIAN, per, La Chimica E L'industria, Vol XLIII,
No 12, Dec 1961, pp 1389-1393

*JPRS/Picatinny Arsenal
Dover, New Jersey

Sci
May 62

Crespi, G. and Brazzoni, M.
DEHYDROCHLORINATION AND VULCANIZATION
OF CHLORINATED ETHYLENE-PROPYLENE
COPOLYMERS. [1962] 9p. 4 refs.
Order from CTS(Chem) \$9.60 CTS(Chem)-366
subsequent copies \$1.60/copy

Trans. of [It] Chimica e [It] Industria (Italy) 1961,
v. 43, no. 12, p. 1394-1397

DESCRIPTORS: *Ethylenes, *Propenes, *Polymers,
Copolymerization, Chlorination, Dehydrogenation,
Vulcanization, Vulcanizates, Physical properties.

(Chemistry--Organic, IT, v. 8, no. 4)

62-12788

I. Crespi, G.
II. Brazzoni, M.
III. CTS(Chem)-269
IV. Chemical Translating
Service, Palo Alto, Calif.

Office of Technical Services

62-17339

Natta, G., Pasquon, I., and Dente, M.
CALCULATION OF MOLECULAR WEIGHT DISTRIBUTION IN SLOW POLYMERIZATIONS. I. AVERAGE DEGREES OF POLYMERIZATION FOR POLYMERS OBTAINED IN PROCESSES CHARACTERIZED BY TERMINATION THROUGH CHAIN TRANSFER WITH MONOMER. May 62. 5200 words, 10 refs.
Order from CTS(Chem) \$21.80 CTS(Chem)-272
subsequent copies \$3.50/ea.

Trans. of (la) Chimica e (l')Industria (Italy) 1962,
v. 44, no. 1, p. 1-9.

DESCRIPTORS: *Polymers, Polymerization, *Molecular weight, Distribution, *Statistical functions, Numerical analysis, Differential equations.

(Chemistry--Organic, TT, v. 8, no. 2)

- I. Natta, G.
- II. Pasquon, I.
- III. Dente, M.
- IV. Title: Average ...
- V. CTS(Chem)-272
- VI. Chemical Translating Service, Palo Alto, Calif.

Office of Technical Services

62-18918

Natta, G., Pasquon, I., and Denke, M.
DISTRIBUTION CURVE OF POLYMERS OBTAINED IN
PROCESSES CHARACTERIZED BY TERMINATION
THROUGH CHAIN TRANSFER WITH THE MONOMER.
Note 2 on Calculation of the Distribution of the
Molecular Weights in the Slow Polymerizations.
[196?] 28p. (Illeg. omitted) 6 refs.
Order from SLA \$2.60

62-18918

Trans. of the Chimica e l'Industria (Italy) 1962, v. 44
[no. 1] p. 10-17.
Another trans. is available from CTS (Chem) \$14.80
(subsequent copies \$2.50/ea.) as CTS (Chem)-273.
May 62, 3700 words.

DISCUSSION: Polymers, *Polymerization, *Molec-
ular weight, Distribution, *Statistical functions,
Numerical analysis, Partial differential equations.
(See also CTS(Chem)-272)
(Chemistry--Physical, TT, v. 9, no. 11)

- I. Natta, G.
- II. Pasquon, I.
- III. Denke, M.
- IV. Title: Calculation...

Office of Technical Services

62-17340

Natta, G., Pasquon, I., and Dente, M.
CALCULATION OF MOLECULAR WEIGHT DISTRIBUTION IN SLOW POLYMERIZATIONS. II. DISTRIBUTION CURVES FOR POLYMERS OBTAINED BY PROCESSES CHARACTERIZED BY TERMINATION THROUGH CHAIN TRANSFER WITH MONOMER.
May 62, 3750 words, 6 refs.
Order from CTS (Chem) \$14.80 CTS (Chem)-273
subsequent copies \$2.50/ea.

Trans. of [In] Chimica e [I]ndustria (Italy) 1962.
v. 44, no. 1, p. 10-17.

DESCRIPTOR: *Polymers, *Polymerization, *Molecular weight, *Distribution, *Statistical functions, Numerical analysis, Partial differential equations.
(See also CTS(Chem)-272)

(Chemistry--Organic, TT, v. 8, no. 2)

- I. Natta, G.
- II. Pasquon, I.
- III. Dente, M.
- IV. Title: Distribution ...
- V. CTS(Chem)-273
- VI. Chemical Translating Service, Palo Alto, Calif.

Office of Technical Services

Pegoraro, M.
FRACTIONATION OF POLYPROPYLENE ACCORD-
ING TO MOLECULAR WEIGHT ONLY. May 62,
3300 words, 14 refs.
Order from CTS(Chem) \$13.20 CTS(Chem)-274
subsequent copies \$2.20/ea.

Trans. of [la] Chimica e [l']Industria (Italy) 1962,
v. 44, no. 1, p. 18-23.

DESCRIPTORS: *Polymers, *Propenes, *Fractiona-
-tion, *Molecular weight.

(Chemistry--Organic, TI, v. 8, no. 2)

62-17341

- I. Pegoraro, M.
- II. CTS(Chem)-274
- III. Chemical Translating
Service, Palo Alto, Calif.

Office of Technical Services

Moraglio, Giovanni.
ON THE DETERMINATION OF THE MOLECULAR
WEIGHT OF LINEAR POLY-1-BUTENE. May 62,
1000 words, 7 refs.
Order from CTS(Chem) \$4.00 CTS(Chem)-275
subsequent copies \$0.75/ea.

Trans. of [I] Chimica e [I] Industria (Italy) 1962,
v. 44, no. 1, pp. 32-33.

DESCRIPTORS: *Polymers, *Butenes, *Molecular
weight, Determination.

(Chemistry--Organic, TT, v. 8, no. 2)

62-17337

- I. Moraglio, G.
- II. CTS(Chem)-275
- III. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

62-17334

Marconi, W., Mazzel, A. and others.
STEREOSPECIFIC POLYMERIZATION OF ISOPRENE
WITH CALCIUM ZINC ALKYL AND TITANIUM
SALT'S. May 62. 3500 words, 12 refs.
Order from CTS(Chem) \$14.00 CTS(Chem)-270
subsequent copies \$2.30/ea.

Trans. of [it] Chimica e [it] Industria (Italy) 1962,
v. 44, no. 2, p. 121-126.

DESCRIPTORS: Isoprene, Polymerization,
Catalysts, Catalysts, Complex compounds, Calcium
compounds, Zinc compounds, Alkyl radicals,
Titanium compounds, Chlorides.

(Chemistry--Organic, TT, v. 8, no. 2)

1. Title: Stereospecific
polymerization
- I. Marconi, W.
- II. Mazzel, A.
- III. CTS(Chem)-270
- IV. Chemical Translating
Service, Palo Alto, Calif.

Office of Technical Services

62-17335

Marconi, W., Santostasi, M. L., and Malde, M. de.
SYNTHESIS OF BININDENYL DERIVATIVES OF TI-
TANIUM AND THEIR COMPLEXES WITH ALUMI-
NUM ALKYLs. May 62, 4000 words, 24 refs.
Order from CTS(Chem) \$16.00 CTS(Chem)-278
subsequent copies \$2.70/copy.

Trans. of [la] Chimica e [l'] Industria (Italy) 1962,
v. 44, no. 3, p. 229-234.

DESCRIPTORS: *Metallic compounds, *Indene, *Ti-
tanium compounds, Chlorides, Bromides, Iodides,
*Complex compounds, *Aluminum compounds, *Al-
kyl radicals, Synthesis, Chemical properties, Phys-
ical properties.

(Chemistry--Organic. TT, v. 8, no. 2)

- I. Marconi, W.
- II. Santostasi, M. L.
- III. Malde, M. de
- IV. CTS(Chem)-278
- V. Chemical Translating
Service, Palo Alto, Calif.

Office of Technical Services

Marconi, W., Santostasi, M. L., and Malde, M. de.
MONO- AND DIISOPROPYL POLYMERIZATIONS CATA-
LYZED BY INIENYL DERIVATIVES OF TITA-
NIUM IN COMBINATION WITH METAL ALKYL.
May 62. 3900 words. 9 refs.
Order from CTS(Chem) \$15.60 CTS(Chem)-279
subsequent copies \$2.60/ea.

Trans. di (la) Chimica e (l')Industria (Italy) 1962.
v. 44, no. 3, p. 235-240.

DESCRIPTORS: *Ethylene, *Polymerization, *Cat-
alysts, Titanium compounds, Halides, Metallic com-
pounds, Alkyl radicals, Isobutene, Grignard reagents,
Reagents, Catalysts, Butadiene, Isoprene, Polymers.

(Chemistry--Organic, TT, v. 8, no. 2)

62-17336

- I. Marconi, W.
- II. Santostasi, M. L.
- III. Malde, M. de
- IV. CTS(Chem)-279
- V. Chemical Translating
Service, Palo Alto, Calif.

Office of Technical Services

Dunusso, Ferdinand and Polizzotti, Giulio.
ON THE APPLICATION OF DIFFERENTIAL
THERMAL ANALYSIS TO MACROMOLECULAR
MATERIALS: ISOTACTIC POLYSTYRENE AND
POLYETHYLENE. Mar 62. 3600 words, 10 refs.
Order from CTS (Chem) \$14.40 CTS(Chem)-280
subsequent copies \$2.40/ea.

Trans. of [14] Chimica e [1] Industria (Italy) 1962,
v. 44, no. 3, p. 241-246.

DESCRIPTORS: *Polymers, *Ethylenes, *Styrenes,
*Calorimetry, Transformations, Crystallization,
Relaxation time.

(Chemistry--Organic, TT, v. 8, no. 2)

62-17330

- I. Dunusso, F.
- II. Polizzotti, G.
- III. CTS(Chem)-280
- IV. Chemical Translating
Service, Palo Alto, Calif.

Office of Technical Services

R-983-11

Comportamento di Esplosivi all' Azione dei Raggi
Gamma. Nota III, by E. Piantanida M. Piazzì.

ITALIAN, per, La Chimica e l'Industria, Mar 1962,
pp 247.

*JPRS vor Picatinny Arsenal
Dover, New Jersey

8 Aug 62

Bucci, G. and Simonazzi, T.
DETERMINATION OF THE COMPOSITION OF
ETHYLENE-PROPYLENE COPOLYMER BY MEANS
OF SPECTROSCOPY IN THE NEAR INFRARED.

May 68, 375 words, 4 refs.

Order from CTS (Chem) \$1.50

CTS(Chem)-281

subsequent copies \$0.25/ea.

Trans. of [It] Chimica e [I]ndustria (Italy) 1962,
v. 44, p. 262.

DESCRIPTORS: *Polymers, *Ethylenes, *Propenes,
Copolymerization, Spectrographic analysis, *Infrared
spectroscopy, Spectroscopy

(Chemistry--Organic, TT, v. 8, no. 2)

62-17337

I. Bucci, G.

II. Simonazzi, T.

III. [Illegible]

IV. Chemical Translating
Service, Palo Alto, Calif.

Office of Technical Services

Determination of the Molecular Weight Distribution
for cis-1,4-Polybutadiene by the Sedimentation
Rate Method, by G. Moraglio.

XENILIAN, per, Chimica e l'Industria, 1962,
Vol. XLIV, No 4, pp 378-379.

CTB(Chem)-282

Sed-Comm
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222,454

62-22-6-

Giantini, U. and Cosca, S.
VINYL CHLORIDE POLYMERS OBTAINED WITH
CATALYSTS THE PARTLY FROM ALUMINUM ALKYL
AND VANADIUM COMPOUNDS. Aug 62, 4100 words.
2x refs.
Order from CTS(Chem) \$16.40 CTS(Chem)288
Subsequent copies \$2.70/ea.

Trans. of [Ing] Chimica e Industria (Italy) 1962,
v. 44 (no. 4) p. 571-578.

DISCUSSION: *Polymers, *Vinyl chlorides, Acetates,
Catalysts, Metallorganic compounds, *Aluminum com-
pounds, *Vanadium compounds, Alkyl radicals,
Chlorides.

(Chemistry--Organic, TT, v. 8, no. 7)

- I. Giantini, U.
- II. Cosca, S.
- III. CTS(Chem)-288
- IV. Chemical Translating
Service, Palo Alto, Calif.

Office of Technical Services

Giamini, U. and Gesca, S.
VINYL CHLORIDE POLYMERS OBTAINED WITH
CATALYSTS PREPARED FROM ALUMINUM ALKYL
AND VANADIUM COMPOUNDS, tr. by Flacher. [1962]
2p.

Order from K-H \$30.00

K-H-12245b

Tratt. di la Chimica e l'Industria (Italy) 1962, v. 44,
no. 4, p. 371-378.

Other translations are available from CTS(Chem)
\$6.40 (subsequent copies \$2.70/cn) as CTS(Chem)-288,
Aug 62, 400 words, and from SLA \$2.60 as 62-18673
[1962] (26p).

DESCRIPTORS: *Polyvinyl chloride, *Polymers, Cat-
alysts, Aluminum compounds, Alkyl radicals, Vanadi-
um compounds.

Materials - Physics, IT, v. 9, no 10)

62-12245

- I. Giamini, U.
- II. Gesca, S.
- III. K-H-12245-b
- IV. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

62-22387

Nebbia, L. and Paganì, B.
QUANTITATIVE DETERMINATION OF THE ACTIVE
ALUMINUM IN ALUMINUM ALKYLs BY MEANS OF
TERTIARY BASES. Aug 62. 1350 words, 7 refs.
Order from CTS(Chem) \$5. 40 CTS(Chem)-283
subsequent copies \$6. 40/ca.

Trans. of [la] Chimica e Industria (Italy) 1962, v. 44
no. 4, p. 383-384.

DESCRIPTORS: *Quantitative analysis, Electrolytic
titration, *Metallorganic compounds, *Aluminum com-
pounds, Alkyl radicals, *Pyridines.

(Chemistry--Analytical. TT. v. 8. no. 7)

- I. Nebbia, L.
- II. Paganì, B.
- III. CTS(Chem)-283
- IV. Chemical Translating
Service, Palo Alto, Calif.

Capuccio, V., Coen, A. and others.
FIBRAS FINE ISOTACTIC POLYPROPYLENE.

Aug 62, 5300 words, 22 refs.

Order from CTS(Chem) \$21.50

CTS(Chem)-292

Subsequent copies \$3.50/ea.

Trans. of [It] Chimica e [It] Industria (Italy) 1962,
vol. 64, no. 50, pp. 463-473.

DESCRIPTORS: *Synthetic fibers, *Polymers,
*Propylenes, Physical properties, Crystal structure,
X-ray diffraction analysis.

(Materials--Textiles, TT, v. 8, no. 7)

62-22152

I. Capuccio, V.

II. Coen, A.

III. CTS(Chem)-292

IV. Chemical Translating
Service, Palo Alto, Calif.

Office of Technical Services

Cappuccio, V., Coen, A. and others.
ISOTACTIC POLYPROPYLENE FIBER. [1962] [32]p.
22 refs.
Order from SIA \$3.60 62-18672

Trans. of [It] Chimica e Industria (Italy) 1962, v. 44
(no. 3) p. 465-473.
Another trans. is available from CTS(Chem) \$21.20
(subsequent copies \$3.50/ea) as CTS(Chem)-292,
Aug 62, 5700 words.

DESCRIPTION: *Synthetic fibers, Polyethylene plastics,
*Proprietary, Molecular isomerism, Extrusion, Crystal
structure, Physical properties, X-ray diffraction
analysis.

The behavior of isotactic polypropylene in the various
stages of its transformation into fiber is discussed in
the light of the rheological properties of the molten
(Materials--Textiles, TT, v. 9, no. 12) (over)

62-18672

I. Cappuccio, V.
A. Coen, A.

Office of Technical Services

Danusso, Ferdinando and Sianesi, Dario.
ON THE MECHANISM OF STEREOSPECIFIC POLY-
MERIZATION AND COPOLYMERIZATION OF ARO-
MATIC VINYL MONOMERS. I. EXPERIMENTAL
RESULTS. *Ang* 62, 6500 words, 29 refs.
Order from CTS(Chem) \$26.00 CTS(Chem)-293
subsequent copies \$4.25/ea. (196)CTS 63-26634

Trans. of [la] *Chimica e [l']Industria (Italy)* 1962,
v. 44, no. 5, pp. 474-482.

DESCRIPTORS: *Polymerization, *Vinyl radicals,
*Styrenes, Stereochemistry, Reaction kinetics,
Catalysis, Titanium compounds, Chlorides, Aluminum
compounds, Hydrocarbons, Copolymerization.

(Chemistry--Organic, TT, v. 8, no. 7)

62-22381
63-26634
I. Danusso, F.
II. Sianesi, D.
III. CTS(Chem)-293
IV. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

Clampelli, F., Bucci, G. and others.
ANALYSIS OF ETHYLENE-PROPYLENE COPOLY-
MERS BY MEANS OF INFRARED SPECTROSCOPY.

Aug 62, 2500 words, 8 refs.

Order from CTS(Chem) \$9.20

CTS(Chem)-194

subsequent copies \$1.50/ea

Trans. of [6] Chimica e [1] Industria (Italy) 1962,
v. 44, no. 3, p. 489-493.

DESCRIPTORS: *Polymers, *Ethylenes, *Propenes,
Chemical analysis, *Infrared spectroscopy.

(Chemistry--Analytical, TT, v. 8, no. 7)

62-22-80

I. Clampelli, F.

II. Bucci, G.

III. CTS(Chem)-274

IV. Chemical Translating
Service, Palo Alto, Calif.

Office of Technical Services

On the Mechanism of Stereospecific Polymerization
and H₂O₂ Copolymerization of Aromatic Vinyl
Monomers. II. Postulation of the Kinetic and
Chemical Mechanism, Aug 1962, 24 pp. by [unclear]

IRANIAN, per, Chimica e l'Industria, 1962,
Vol. XLIV, No 6, pp 611-620.

OSI(Chem)-597

SLA 82-011

100-100000

Ref--Chem
Feb 63

222,4555

Natta, G., Pasquon, I. and others.
KINETICS OF PROPYLENE POLYMERIZATION WITH
HETEROGENEOUS CATALYSTS OF HIGH STEREOSPECIFICITY. NOTE VII. STUDY OF THE POLYMER
CHAIN INITIATION STEPS. 15p. 14 refs MTWL-1145
Order from CTH or ETC \$0.80 63-26633

Trans. of la Chimica e l'Industria (Italy) 1962, v. 44,
no. 4, pp. 621-636.
Another trans. is available from CTS (Chem) \$12.00,
subsequent copies \$2.00 ea. as CTS (Chem)-298,
3000 words.

DESCRIPTORS: *Propenes, *Polymerization, Mechan-
ics, Chemical reactions, Catalysts, *Polyethylene
plastic.

(Materials--Physics, TT, v. 10, no. 10)

63-26633

- I. Natta, G.
- II. Pasquon, I.
- III. MTWL-1145
- IV. Stichting voor Moettijk
Toegankelijke Wetens-
chappelijke Literatuur
(Netherlands).
- V. Title: Study ...

Office of Technical Services

Crespi, G., Filad, U. and Arcozzi, A.
STUDIES ON THE RATE OF CRYSTALLIZATION OF
CIS-1, 4-POLYBUTADIENE, 11p 5 rate MTWL-1144.
Order from OTH or ETC \$0.80 63-26632

Trans. of la Chimica e Fisica (Italy) 1962, v. 44,
no. 6, pp. 627-640.
Another trans. is available from CTS (Chem) \$8.20,
subsequent copies \$1.35 ea. as CTS (Chem)-299,
2050 words

DESCRIPTORS: "Butadienes, "Polymers, Crystalliza-
tion, Experimental data, Crystal growth.

JPRS filed alone Arcozzi

(Materials--Elastomers, TT, v. 10, no. 10)

63-26632

- I. Crespi, G.
- II. Filad, U.
- III. Arcozzi, A.
- IV. MTWL-1144
- V. Stichting voor Moedelijk
Toegankelijk Wetens-
chappelijke Literatuur
(Netherlands)

Office of Technical Services

Maffezzoni, Umberto and Alneri, Enzo.
DIMETHYL TEREPHTHALATE FROM p-XYLENE BY
SIMULTANEOUS OXIDATION AND ESTERIFICATION
(Dimetiltereftalato da p-Xilene per Ossidazione ed
Esterificazione Contemporanea). 23 Sep 62 (20).
(Foreign text included) 11 refs.
Order from SIA \$1.60 62-18817

Trans. of la Chimica e l'Industria (Italy) 1962, v. 44,
no. 6, p. 631-635.

DESCRIPTORS: *Dacron, *Polyethylene plastics,
*Phthalates, Methyl radicals, Synthesis, *Xylenes,
Oxidation, Esterification, Catalysts, Methanol.

At the present time dimethyl terephthalate is produced
on an industrial scale in two separate stages of
oxidation and esterification. A new process permits
this ester to be obtained in one single step by means of
(Materials--Textiles, TT, v. 9, no. 11) (over)

62-18817

I. Maffezzoni, U.
II. Alneri, E.

Office of Technical Services

Design of Tubular Catalytic Mixed Bed Reactors,
by Sergio Carra, Maria Paola Stabilini, 10 pp.

^{✓ 62.11.14}
GINSAMI, per, Chim Ind, 1962, pp 851-855.
ITALIAN 9208228

AKI-Tr-5716

Sci - Ital Sci

Jul 63

238,200

Caldarazzo, Fausto and Brocchi, Raffaele.
RESEARCHES ON THE SYNTHESIS OF VANADIUM
HEXACARBONYL AND ON SALTS OF HEXACAR-
BONYL-VANADATE ANION. Jan 63, 4500 words,
11 refs.

Order from CTS(Chem) \$13.50 CTS(Chem)-309
subsequent copies \$2.25/ea.

Trans. of [It] Chimica e [It] Industria (Italy) 1962, v. 44,
no. 9, p. 990-996.

DESCRIPTIONS: *Metalorganic compounds, *Vanadium
compounds, *Carbonyl radicals, *Vanadates, Salts,
Synthesis, Magnesium compounds, Sodium compounds,
Pyridines.

(Chemistry--Organic, TT, v. 9, no. 6)

63-12655

- I. Caldarazzo, F.
- II. Brocchi, R.
- III. CTS(Chem)-309
- IV. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

Calderazzo, Fausto and Ercoli, Raffaele.
RESEARCH ON THE SYNTHESIS OF VANADIUM
HEXACARBONYL AND ITS SALTS OF THE HEXA-
CARBONYL VANADATE ANION. [1962] 23p.
Order from K-H \$28.75 K-H 12427

Trans. of la Chimica e l'Industria (Italy) 1962, v. 44,
no. 9, p. 990-1005.
Another trans. is available from CTS(Chem) \$13.00
subsequent copies \$2.25/ea. as CTS(Chem)-309,
Jan 63, 4500 words.

DESCRIPTORS: Synthesis (Chemistry), *Vanadium
compounds, *Carbonyl radicals, Salts, Ions.

(Engineering-Chemical, TT, v. 9, no. 11)

63-12943

- I. Calderazzo, F.
- II. Ercoli, R.
- III. K-H-12427
- IV. Kresge-Hooker Science
Library Association,
Detroit, Mich.

Office of Technical Services

V. VALVASSORI, A., and Sertori, G.
TERPOLYMERIZATION OF ETHYLENE-PROPYLENE-
1-BUTENE. Jan 63, 2200 words, 12 refs.
Order from CTS(Chem) \$8.80 CTS(Chem)-311
subsequent copies \$1.50/cn.

Trans. of [It.] Chimica e [I.] Ind. (Italy) 1962, v. 44,
no. 10, p. 1091-1094.

DESCRIPTORS: "Ethylenes, "Propenes, "Butenes,
Polymerization, Reaction kinetics, Elasticity,
Chemical analysis.

(Chemistry--Organic, TT, v. 9, no. 6)

63-1265c

- I. Valvassori, A.
- II. Sertori, G.
- III. CTS(Chem)-311
- IV. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

63-12657

Valvassori, A., Sartori, G., and Ciampelli, P.
HOMOGENEOUS POLYMERIZATION OF 1,5-HEXADIENE AND
ITS COPOLYMERIZATION WITH ETHYLENE. *Mac* 63,
3703 words, 23 refs.
Order from CTS(Chem) \$14.80 CTS(Chem)-312
Subsequent copies \$2.50/ea.

Trans. of [In] *Chimica e [I]ndustria (Italy)* 1961, v. 44
[no. 10] p. 1095-1100.

DESCRIPTORS: *Diene, Polymerization, *Ethylene,
Copolymerization, Chemical analysis, Catalysts.

(Chemistry--Organic, TT, v. 9, no. 6)

I. Valvassori, A.
II. Sartori, G.
III. Ciampelli, P.
IV. CTS(Chem)-312
V. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

Zinnotti, R., Menaresi, P., and Baldi, L.
THE ABSORPTION OF BETA RADIATION BY POLY-
MERS AND THE DETERMINATION OF THE TEM-
PERATURE OF PHASE AND ISOPHASIC TRANSITIONS
Jhs 58, 3900 words, 5 refs.
Order from CTS(Chem) \$15.60 CTS(Chem)-313
subsequent copies \$2.60/ea.

Trans. of [It] Chimica e [It] Industria (Italy) 1962, v. 44,
no. 10, p. 1114-1124

DESCRIPTORS: Polymers, Beta particles, Absorp-
tion, Phase transitions, Temperature, Determination,
Ethylenes, Malates, Styrenes, Butadienes, Butenes,
Propenes, Inorganic substances.

(Chemistry--Physical, TT, v. 9, no. 6)

63-12654

- I. Zinnotti, R.
- II. Menaresi, P.
- III. Baldi, L.
- IV. CTS(Chem)-313
- V. Chemical Translating
Service, Palo Alto,
Calif.

ACS
Physical Chemistry
L. Menaresi, P. Baldi

Office of Technical Services

Ceselli, C. A., Garlande, T. and others.
cis-trans HOMERIZATION OF POLYBUTADIENE.
Jan 63, 3200 words, 12 refs.
Order from CTS(Chem) \$12.80 CTS(Chem)-317
subsequent copies \$2.15/cn.

Trans. of [la] Chimica e [l']Industria (Italy) 1962,
v. 44, no. 11, p. 1203-1211.

(DESCRIPTORS: Polymers. *Elastomers. *Diene Monomers.
Volcanization, Molecular isomerism, Spectrum
(infrared), Sulfur, Elasticity.

(Materials--Elastomers, TT, v. 9, no. 6)

63-12660

- I. Ceselli, C. A.
- II. Garlande, T.
- III. CTS(Chem)-317
- IV. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

Natta, G., Asta, G. Dall' and Mazzanti, G.
CRYSTALLINE ALTERNATING ETHYLENE-CYCLO-
HEPTENE COPOLYMERS. Jan 63. 3000 words, 8 refs.
Order form CTS(Chem) \$12.00 CTS(Chem)-318
subsequent copies \$2.00/ea.

Trans. of [1a] Chimica e [1] Industria (Italy) 1962,
v. 44, no. 11, p. 1712-1716.

DESCRIPTORS: Polymers, *Ethylenes, *Cycloheptenes,
Copolymerization, Catalysts, Vanadium catalysts,
Aluminum catalysts, Crystal structure, Chemical
bonds, Heptenes.

(Chemistry--Organic, IT, v. 9, no. 6)

63-12661

- I. Natta, G.
- II. Asta, G. Dall'
- III. Mazzanti, G.
- IV. CTS(Chem)-318
- V. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

Valderazzo, F. and Colvi, P. L.
THE VANADIUM (0) π -TROPYLIUM- π -CYCLO-
HEPTATRIENE CATION $[V(C_7H_7)(C_7H_8)]^+$. [1963]
12p.

Order from K-H \$12.00

K-H 12589

Trans. of la Chimica e l'Industria (Italy) 1962, v. 44
(no. 11) p. 1217-1219.

Another trans. is available from CTS(Chem) \$9.60
subsequent copies \$1.60/ea. as CTS(Chem)-319, Jan 63,
2400 words.

DESCRIPTORS: *Metalorganic compounds, Complex
compounds, *Vanadium compounds, *Cycloheptatriene
derivatives, Synthesis (Chemistry), Ions.

(Chemistry--Organic, TT, v. 10, no. 1)

63-17293

- I. Valderazzo, F.
- II. Colvi, P. L.
- III. K-H-12589
- IV. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

Calderazzo, F. (auto) and Calvi, P. L.
THE VANADIUM (O)- π -TROPYLUM- π -CYCLO-
HEPTATRIENE CATION ($V(C_7H_7)^+$) . Jan 63,
2400 words, 18 refs.
Order from CTS(Chem) \$9.60 CTS(Chem)-319
subsequent copies \$1.60/ea.

Trans. of [I] Chimica e [I] Industria (Italy) 1962,
v. 44, no. 11, p. 1217-1230.

DESCRIPTORS: *Metalorganic compounds, Complex
compounds, *Vanadium compounds, *Cycloheptatriene
derivatives, Synthesis.

(Chemistry--Organic, TT, v. 9, no. 6)

63-12662

- I. Calderazzo, F.
- II. Calvi, P. L.
- III. CTS(Chem)-319
- IV. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

Chini, P., Baradel, A., and others.
NOTE ON SOME METALORGANIC ALUMINUM COM-
POUNDS DERIVED FROM ACETYLENE AND ITS
HOMOLOGS. Jan 63, 3600 words, 16 refs.
Order from CTS(Chem) \$22.40 CTS(Chem)-320
subsequent copies \$3.70/ea.

Trans. of It. Chimica e Ind. (Italy) 1962,
v. 44, no. 11, p. 1220-1227.

DISCRIPTION: *Metalorganic compounds, *Aluminum
compounds, *Acetylenes, Acetylene derivatives,
Syntheses.

(Chemistry--Organic, TT, v. 9, no. 6)

63-12663

- I. Chini, P.
- II. Baradel, A.
- III. CTS(Chem)-320
- IV. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

Beccaredda, M. and Burta, E.
DYNAMIC MECHANICAL PROPERTIES AND ISO-
PHASE TRANSITIONS OF LINEAR POLYETHYLENES
AND OF SOME POLY-ALPHA-OLEFINS. Jan 63.
5700 words, 30 refs.
Order from CTS(Chem) \$22.00 CTS(Chem)-321
subsequent copies \$3.80

Trans. of [la] Chimica e Industria (Italy) 1962,
v. 41, no. 11, p. 1228-1236.

DESCRIPTORS: Polymers, *Ethylenes, Propenes,
Butenes, Pentenes, Mechanical properties, Phase
transitions.

(Chemistry--Organic, TT, v. 9, no. 6)

63-1264

- I. Beccaredda, M.
- II. Burta, E.
- III. CTS(Chem)-321
- IV. Chemical Translating
Service, Palo Alto, Calif.

Office of Technical Services

Ercohl, Raffaele, Santambrogio, Elio, and Casagrande
G. L. T. Santambrogio

SYNTHESIS AND PROPERTIES OF TRICOBALT
ENNEACARBONYLMETHANE AND OF DERIVATIVES
REPRESENTED BY $\text{Co}_3(\text{CO})_9\text{CH}_3$. [1963] 14p. 9 refs.
Order from CTS(Chem) \$16.00 CTS(Chem)-3:5
subsequent copies \$2.60/ea.

Trans. of [1a] Chimica e [1] Industria (Italy) 1962,
v. 44, no. 12, p. 1344-1349.

DESCRIPTORS: *Complex compounds, *Metalorganic
compounds, *Organic compounds, *Carbonyl radicals,
Methyl radicals, Halogen compounds, Esters, Syn-
thesis, Chemical properties

(Chemistry--Organic, TI, v. 10, no. 2)

63-13429

- I. Ercohl, R.
- II. Santambrogio, E.
- III. Casagrande, G. T.
- IV. CTS(Chem)-125
- V. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

BALDI, L. and Zannetti, R.
SOLUBLE SOLUBILITY AND DIFFUSIVITY IN
ETHYLENE-PROPYLENE AND ETHYLENE-BUTENE-1
COPOLYMERS. [1963] 1500 words, 6 refs.
Order from CTS(Chem) \$4.00 CTS(Chem)-322
subsequent copies \$1.00/copy.

Trans. of [Ita] Chimica e [Industria (Italy) 1962,
v. 44, no. 12, p. 1350-1353.

DESCRIPTORS: *Synthetic rubber, *Vulcanization,
*Solutor, Solubility, Diffusion, *Polyethylene plastics,
Ethylene, Propylene, Butenes, Polymers

(Miscellaneous Elastomers, TT, v. 10, no. 2)

63-17427

- I. Baldi, L.
- II. Zannetti, R.
- III. CTS(Chem)-322
- IV. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

Rossi, C. and Bianchi, U.
THERMODYNAMIC PROPERTIES OF HIGH POLY-
MERS: INTERNAL PRESSURE. Paper presented at the
International Congress on Plastics (no. 14) Turin,
26-29 Sep 62. [1963] 320 words, 16 refs.
Order from CTS(Chem) \$13.00 CTS(Chem)-323
subsequent copies \$2.75/cn.

Trans. of [in] Chimica e [in] Industria (Italy) 1962,
v. 44, no. 12, pp. 1362-1366.

DESCRIPTORS: *Polymers, Plastics, Physical prop-
erties, *Thermodynamics, Pressure, Phase transitions,
Melting, Elasticity

(Materials--Plastics, TT, v. 10, no. 2)

63-17435

I. Rossi, C.
II. Bianchi, U.
III. Title: Internal...
IV. Title: International...
V. CTS(Chem)-323
VI. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

Baccarodda, Mario.

CRYSTALLINITY OF HIGH POLYMERS AND THEIR DYNAMIC MECHANICAL PROPERTIES. Lecture given at European Conference on Plastics and Rubber (no. 1) Paris, May 62; [1963] 4800 words.
Order from CTS (Chem) \$19.20 CTS (Chem)-324
subsequent copies \$3.20/ea.

Trans. of [la] Chimica e [l']Industria (Italy) 1962, v. 44, no. 12, p. 1383-1389.

DESCRIPTORS: *Polymers, *Crystal structure, Microbiology, Biochemical properties, Dynamics, *Sound transmission, Velocity, Damping, Phase transition, *Plastics, *Fibers, *Synthetic rubber

(Chemistry--Physical, TT; v. 10, no. 2)

63-17426

- I. Baccarodda, M.
- II. CTS (Chem)-324
- III. Chemical Translating Service, Palo Alto, Calif.
- IV. Title: European...

HTS-1435 I 9

Office of Technical Services

Phase Changes in Linear Polymer Systems (PVC), by
M. Mamm.

EUROPEAN, per, Chimica e l'Industria, Vol 44,
1962, pp 1392-1394.

NTC-71-16233-11E

Jan 72

ASTARITA, G. and others. Diffusion phenomena in a liq
flowing along an irregular solid surface.
Chimica Ind. 45(2):142-50 (1962) (CRL/D. 841)

Bubble Motion in Fluidized Solid/Gas Systems,
by L. Massimilla, P. Calla, et al, 12 pp.
ITALIAN, per, La Chimica et l'Industria, Vol XLV,
1968, pp 28-29.
AEKK-Harwell-Tr-997

Sci-Chem
Jun 64

260,948

Gatta, G., Testa, F., and Talamini, G.
EFFECT OF SOME IMPURITIES ON THE POLYMERI-
ZATION OF VINYL CHLORIDE. [1964] 14p
Order from K-H 18. 40 K-H-12912

Trans. Chimica e Industria (Italy) 1963, v. 45,
no. 2, p. 203-208.

(Chemistry--Organic, TT, v. 12, no. 1)

TT-64-12846

- I. Gatta, G.
- II. Testa, F.
- III. Talamini, G.
- IV. K-H-12912
- V. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

63-17434

Natta, G. and Corradini, P.
GENERAL ASPECTS OF THE CRYSTALLINE STRUCTURE OF STEREOREGULAR POLYMERS. Communication presented at the National Congress of Chemistry (no. 3) held jointly with the Swiss Chemical Society, Naples, 27 May-9 June 62. [1963] 9000 words, 53 refs.
Order from CTS(Chem) \$36.00 CTS(Chem)-334
subsequent copies \$6.00/ea.

Trans. of Chimica e [I]ndustria (Italy) 1963, v. 45, no. 3, p. 299-314.

DESCRIPTORS: *Polymers, *Stereochemistry, *Crystal structure, *Molecular isomerism, *Molecular structure, *Physical properties, *Plastics, Rubber, *Synthetic rubber, *Fibers

(Chemistry--Physical, TT, v. 10, no. 2)

- I. Title: Stereoregular polymers
- I. Natta, G.
- II. Corradini, P.
- III. Title: National...
- IV. Title: Swiss...
- V. CTS(Chem)-334
- VI. Chemical Translating Service, Palo Alto, Calif.

Office of Technical Services

Chiusoli, Gian Paolo and Cornetti, Giuseppe.
COUPLED OF ALLYLIC DERIVATIVES BY NICKEL
CARBONYL. [1963] 2600 words, 17 refs.
Order from CTS(Chem) \$10.40 CTS(Chem)-336
subsequent copies \$1.75/ea.

Trans. of Ind. Chimica (Milano) (Italy) 1963,
v. 45 [no. 4] p. 401-404.

DESCRIPTORS: *Halocarbons, Allyl radicals, *Bu-
tanes, *Propene, Polymerization, Catalysts, Complex
compounds, *Nickel catalysts, *Carbonyl radicals

(Chemistry--Organic, YT, v. 10, no. 2)

63-17428

- I. Chiusoli, G. P.
- II. Cornetti, G.
- III. CTS(Chem)-336
- IV. Chemical Translation
Service, Palo Alto,
Calif.

Office of Technical Services

Volpicelli, G. and Massimilla, L.
SECONDARY EFFECTS OF THE SOLUTE CONCENTRATION IN LIQUID-LIQUID EXTRACTION. [1964]
19p

Order from ATS \$23.85

ATS-170741

Trans. of [In]dustria [e] [I]ndustria (Italy) 1963,
v. 45, no. 4, p. 405-416.

(Engineering-Chemical, TT, v. 11, no. 12)

TT-64-12683

I. Volpicelli, G.
II. Massimilla, L.
III. ATS-170741
IV. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

65-17433

Minisci, Francesco and Galli, Renzo

CARBON FREE RADICALS: OXIDATION BY LIGAND
TRANSFER OR ELECTRON TRANSFER AND AFFIN-
ITY TOWARD CONJUGATED OLFINES. [1963]

950 words, 6 refs.

Order from CTS(Chem) \$3.80

CTS(Chem)-335

subsequent copies \$0.60/ea.

- I. Minisci, F.
- II. Galli, R.
- III. CTS(Chem)-335
- IV. Chemical Translating
Service, Palo Alto,
Calif.

Trans. of [la] Chimica e [l] Industria (Italy) 1963,
v. 43, no. 4, p. 448-450.DESCRIPTORS: *Free radicals, *Carbon, Oxidation,
Electrode, *Ethylbenzene, Chemical reactions

(Chemistry - Organic, TT, v. 10, no. 2)

Office of Technical Services

Marconi, W., Araldi, M. and others.
SOME ASPECTS OF THE STEREOSPECIFIC POLY-
MERIZATION OF BUTADIENE WITH CATALYSTS
BASED ON TITANIUM HALIDES. [1963] [14p. 17 refs.
Order from CTS(Chem) \$13.20 CTS(Chem)-339
subsequent copies \$2.20/ea.

Trans. of [la] Chimica e [la] Industria (Italy) 1963,
v. 45, no. 5, p. 521-528.

DESCRIPTORS: *Elastomers, *Polyethylene plastics,
*Butadiene, Polymerization, Metalorganic compounds,
*Ziegler catalysts, *Titanium compounds, Halides,
*Aluminum compounds, Ethyl radicals, Chlorides,
Iodides.

(Mol. Cryst. Liq. Cryst., 11, v. 10, no. 8)

63-17994

- I. Title: CIS-1, 4-Polybuta-
diene
- I. Marconi, W.
- II. Araldi, M.
- III. CTS(Chem)-339
- IV. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

65-17993

Mazzei, A., Cucinella, S. and others.
POLYMERIZATION OF BUTADIENE BY MEANS OF
TITANIUM AMINES AND ALUMINUM DERIVATIVES.
[1963] 111p. 13 refs.
Order from CTS(Chem) \$10.00 CTS(Chem)-340
subsequent copies \$1.50/copy.

Trans. of Industria Chimica (Italy) 1963, v. 45,
no. 5, p. 528-530.

DESCRIPTORS: *Elastomers, *Polyethylene plastics,
*Butadienes, Polymerization, Metalorganic compounds,
*Ziegler catalysis, *Titanium compounds, Amines,
*Aluminum compounds, Alkyl radicals, Hydrides.

(Materials--Elastomers, TT, v. 10, no. 8)

I. Mazzei, A.
II. Cucinella, S.
III. CTS(Chem)-340
IV. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

Natta, G., Crespi, G. and others.
NEW TERPOLYMERS BASED ON ETHYLENE AND
PROPYLENE. [1963] 15p. 7 refs.
Order from CTS(Chem) \$13.20 CTS(Chem)-341
subsequent copies \$2.20/ea.

Trans. of [la Chimica e l'Industria (Italy) 1963,
v. 45, no. 6, pp. 651-656.

DESCRIPTORS: *Elastomers, *Polyethylene plastics,
*Ethylene, *Propenes, *Dienes, Copolymerization,
Ziegler catalysis, Physical properties, *Vulcanization,
Fillers, Oils, Aging.

(Materials--Elastomers, TT, v. 10, no. 9)

63-17992

1. Title: 1,5-Cyclo-octadiene
- I. Natta, G.
- II. Crespi, G.
- III. CTS(Chem)-341
- IV. Chemical Translating Service, Palo Alto, Calif.

NTS 70-907-45

Office of Technical Services

Blanchi, Umberto and Bianchi, Estella.
ON A TRANSITION IN CIS-1, 4-POLYBUTADIENE.
[1963] 7p. 7 refs.
Order from CTS(Chem) \$6.00 CTS(Chem)-342
subsequent copies \$1.00/copy.

Trans. of [la] Chimica e [l'Industria (Italy) 1963,
v. 45, no. 6, p. 657-659.

DESCRIPTORS: *Elastomers. *Polyethylene plastics.
*Butadiene, Physical properties. Transformations,
Pressure, Rolling mills, Adhesion.

(Materials-Plastics, TT, v. 10, no. 8)

63-17995

- I. Title: CIS-1, 4-Polybutadiene
- I. Bianchi, U.
- II. Bianchi, E.
- III. CTS(Chem)-342
- IV. Chemical Translating Service, Palo Alto, Calif.

Office of Technical Services

A New Industrial Process for the Synthesis of
Isoprene, by Marcello De Malde, 20pp
ITALIAN, per, la Chim Ind, Vol 45, 1963, No 6,
pp 665-673
SLA INT-64-18774

Sci + Eng
May 67

327,399

Beati, E., Toffano, S., and Severini, F.
A STUDY OF THE GRAFTING REACTION OF
VINYL MONOMERS ON PEROXIDIZED POLY- α -
OLEFINS, [1963] [13]p. 8 refs.
Order from CTS(Chem) \$14.40 CTS(Chem)-343
subsequent copies \$2.40/ea.

Trans. of [ia] Chimica e Industria (Italy) 1963,
v. 45 no. 6, p. 690-695.

DISCUSSION: *Polyethylene plastics, *Peroxides,
*Graft polymers, *Vinyl radicals, *Pyridines,
Decomposition, Reaction kinetics.

(Materials--Plastics, TT, v. 10, no. 8)

63-17986

I. Beati, E.
II. Toffano, S.
III. Severini, F.
IV. CTS(Chem)-343
V. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

Giuffrè, L. and Casanovi, P.
CONTRIBUTION TO THE ANALYSIS OF DOUBLE
BONDS IN SYNTHETIC ELASTOMERS OF LOW
UNSATURATION. [Nov 68] 3800 words 19 refs
Order from CTS(Chem) \$15.20 CTS(Chem)-147
subsequent copies \$2.50/ea.

Trans. of [la] Chimica e [l]Industria (Italy) 1963,
v. 45, no. 7, p. 806-812. (Abstract available)

DESCRIPTORS: *Elastomers, *Chemical bonds,
*Spectroscopy, Chlorides, Colorimetry, Iodine, Ozone.

The paper deals with a critical study and the develop-
ment of two spectrophotometric methods for the de-
termination of double bonds in synthetic elastomers of
low unsaturation. Moreover, it describes the analytical
conditions of the halogenation method proposed by
Cello, Wiese, and Nelecn and gives a correction factor
useful in the determination of cyclooctadiene monomer
(Materials--Elastomers, TT, v. 11, no. 5) (over)

TT-64-12042

- I. Title: Ozonolysis
- I. Giuffrè, L.
- II. Casanovi, P.
- III. CTS(Chem)-347
- IV. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

Dubini, Mario, Longiave, Carlo, and Castelli,
Renato.

CHAIN TRANSFER TO RADIOACTIVE ETHYLENE
IN THE POLYMERIZATION OF BUTADIENE WITH
COBALT CATALYSTS. [Nov 63] 1800 words 10 refs
Order from CTS(Chem) \$7.20 CTS(Chem)-340
subsequent copies \$1.20/ea.

Trans. of [la] Chimica e [l']Industria (Italy) 1963,
v. 45, no. 8, p. 923-928. (Abstract available)

DESCRIPTORS: *Butadienes, *Polymerization, Metal-
organic compounds, *Ziegler catalysts, Aluminum
compounds, Ethyl radicals, Chlorides, *Cobalt cata-
lysts, *Labeled substances, *Ethylene, Vinyl radicals,
*Radiochemistry, Elastomers,

It was determined that ethylene is introduced into the
polymer molecule when butadiene is polymerized with
(Chemistry--Physical, TT, v. 11, no. 4) (over)

TT-64-12041

- I. Dubini, M.
- II. Longiave, C.
- III. Castelli, R.
- IV. CTS(Chem)-340
- V. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

Portolanti, Augusto and Giardinoto, Gian Vittorio.
PROPERTIES AND APPLICATIONS OF ETHYLENE-
PROPYLENE COPOLYMER. [Nov 63] 3000 words 28 refs
Order from CTS(Chem) \$20.00 CTS(Chem)-330

Trans of [Int] Chemical Industry (Italy) 1963,
v. 45, no. 8, p. 927-936. (ABSTRACT AVAILABLE)

DESCRIPTIONS: *Elastomers, *Polyethylene plastics,
*Ethylene, *Propene, Copolymerization, Ziegler
catalysts, *Vulcanization, Peroxides, Physical
properties, Material forming, Oxone, Aging
(Materials), Degradation.

The properties of the amorphous, saturated ethylene-
propylene copolymer and its vulcanization with
organic peroxides are briefly reviewed. Workability,
compounding with common reinforcing agents and
fillers, and compatibility with other elastomers are
(Materials--Elastomers, TT, v. 11, no. 4) (over)

TT-64-12043

- I. Portolanti, A.
- II. Giardinoto, G. V.
- III. CTS(Chem)-330
- IV. Chemical Translating
Service, Palo Alto, Calif.

Office of Technical Services

Foraboschi, F. P., Lelli, U., and Salvigni, S.
MOVEMENT OF LIQUIDS IN GRANULAR BED:
EQUIVALENT DIFFUSIVITIES FOR HIGH REYNOLDS
NUMBERS, 10p 13refs.
Order from SLA \$11.10

TT-64-16971

Trans. of la Chimica e l'Industria (Italy) 1963, v. 45
(no. 8) p. 944-948.

(Engineering--Chemical, TT, v. 12, no. 5)

TT-64-16971

I. Foraboschi, F. P.
II. Lelli, U.
III. Salvigni, S.
IV. Title: Equivalent ...

Office of Technical Services

Decomposition Kinetics of Cumene Hydro-
peroxide with Solid Acid Catalysts in a
Fluidized Bed Reactor, by S. Carra.
EUROPEAN, per, Chimica e l'Industria,
Vol 45, No9, 1963, pp 1087-1088.
NTC-71-11553-07A

Feb 72

Capella, P., Fedeli, E., Valentini, A. P., Gregorio, G., Jacini, G. SYNTHESIS AND PROPERTIES OF A DISTEARIC ACID. 14p French Order from SIDA \$1.60 Trans. of la Chimica e l'Industria (Italy) 1963, v. 45, no. 10, p. 1212-1215. (Chemistry--Organic, TT, v. 12, no. 5)	TT-64-16866 I. Capella, P. II. Fedeli, E. III. Valentini, A. P. IV. Gregorio, G. V. Jacini, G. VI. Title: Congress ... Office of Technical Services
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Study of the Rate of Crystallization, by U. Fasoli,
G. Napoli, 19 pp.

ITALIAN, per, La Chimica e L'Industria, Vol 45,
No 12, 1963, pp 1507-1514.

GOVERNMENT USE ONLY

ARM/ISIC/Tr-834-68

Sci/Chem
Dec 68

354,936

Polymerization of Butadiene with Titanium
Halides and Derivatives of Aluminum
Hydrides, by W. Marzani, A. Masini,
M. Araldi, M. de Nalio, 13p.
TEKNIKIAN, par, la Chimica e l'Industria,
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Source: La Chimica e L'Industria Vol. 46, No4
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M. Denton, R. Poppi.
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Order from SLA: \$1.00 as TT-65-13800

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New Biological Oxidation Products in the Steroid
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Jacobson, S. H.
 DETERMINATION OF SULFUR BY GAS-LIQUID
 EVOLUTION IN STEELS, IRON AND CAST IRON.
 [1968] 4p. 6 refs.
 Order from SLA \$1.10

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Trans. of Chem. Anal. (London) 1968,
 v. 53, p. 48-50.

DESCRIPTORS: Iron alloys, Castings, Iron,
 Steel, Sulfur, Chemical analysis, Gas-liquid evolution
 apparatus, Thermal diffusion separation.

Notes: In steels and cast iron sulfur exists either as FeS or
 Fe₃S₂. Sulfur present as FeS is liberated by dilute or
 concentrated HCl, that as Fe₃S₂ is only partly liberated
 according to the equation



(Monography--Pittsburgh Metals, TT, v. 38, no. 9) (over)

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Colorimetric Determination of Chloride with Chloride Peroxide, by H. Oosterlag, M. E. Hink. JNM

ANALYT, pub, Chimie Analytique, Vol XXXIV, 1972,
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TT-63-18969

Trans. of Chimie Analytique (France) 1952, v. 34,
p. 189-192. (ADDITIONAL AVAILABLE)

DESCRIPTORS: *Hexachlorocyclohexanes, Infrared
spectrometry, *Insecticides, Impurities, Benzenes.

The influence of various by-products formed during the
chlorination of benzene on the quantitative determination
of gamma hexachlorocyclohexane by infrared spectros-
copy was determined. After having examined the spec-
tra of alpha and beta heptachlorocyclohexane, alpha and
beta octachlorocyclohexane, monochlorobenzene and
(Chemistry--Organic, TT, v. 11, no. 4) (over)

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Quantitative Analysis of Alumina Hydrate Mixtures by
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TIONAL GROUPS (Nouvelles Méthodes pour l'Identifi-
cation des Substances Organiques à l'Aide des Groupe-
ments Fonctionnels). [1961] 28p. 19 refs.
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Trans. of Chim[ie] Analytique (France) 1954. v. 36.
no. 6. p. 143-152.

DESCRIPTORS: Alcohols, Aldehydes, Ketones, Or-
ganic acids, Acids, Amines, Organic compounds,
Identification, Molecular weight, Determination,
Pyrazolones.

(Chemistry--Organic, TT, v. 7, no. 3)

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1. Veibel, S.

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Leroy, R.
A CORRECT METHOD FOR DETERMINING WATER
(Une Methode Correcte de l'Eau). [1963] 18p. (figs.
omitted).
Order from SLA \$1.60

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Trans. of Chim[ie] Analytique (France) 1954, v. 36
[no. 11] p. 291-301.
Another trans. is available from SLA at \$2.40,
pb\$3.30 as 59-15290, [1959] [16]p.

DESCRIPTORS: *Water, *Test methods, Dehydration,
Furnace, Chemical bonds, Thermodynamics,
Humidity, Vapor pressure, Chemical analysis.

For abstract see Technical Translations: 2; 181, 1959.

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TRONEN, P. ¹⁹⁵⁵ ~~Chim. Analyst~~, Vol XXXVII,
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